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Kizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptce, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R., Theising, B., Unpublished (1997)

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Fax: 314 286 1800
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 580)
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Af28a03.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone

AMGE:1032940 3', mRNA sequence.

AA628914 1 GI:2541301
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/clone_lib="CIT-HSP"
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/cell_type="Sperm"
/note="Vector: pBelobAC11; Site_1: HindIII; Site_2: HindIII"
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Pred. No. 1.8e-212;
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                                                                                                              AL449907 479 bp mRNA EST 15-NOV-2000 AL449907 Homo sapiens fetal lung (Stavrides GS) Homo sapiens cDNA,
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                                                                                                                                                                                                                                                                                                                        1. 479
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/map="20"
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/tissue_type="Lung"
/dev_stage="fetal"
/note="CDNA fragment isolated using a CDNA end rescue
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Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Eutelec Mammalla; Eutherla; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 479)
Stavides, G.S., Huckle, E.J. and Deloukas, P. Unpublished Stavrides, G.S., Huckle, E.J. and Deloukas, P. Contact: Stavrides GS
The Sanger Centre
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Best Local Similarity 100.0%; Pred. No. 8.2e-174;
Matches 478; Conservative 0; Mismatches 0;
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AL449907.1 GI:11181532
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Homo saplens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.
1 (bases lto 528)
Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B.,
7. Schellenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wylle
7. T., Waterston,R. and Wilson,R.
WashU-warck EST Project 1997
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4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@lmgge.llnl.gov) for further information.
Seq primer: -41m13 fwd. ET from Amersham
High quality sequence stop: 464.
                                                                                                                                                                                                                                                AA404352 528 bp mRNA EST 16-MAY-1997 zv63f10.s1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:758347 3', mRNA sequence.
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1. 528
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/lab_host="DH108"
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Pred. No. 1.9e-173;
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Stavides, G.S., Huckle, E.J. and Deloukas, P. Unpublished Stavrides, G.S., Huckle, E.J. and Deloukas, P. Contact: Stavrides G.S., Huckle, E.J. and Deloukas, P. Contact: Stavrides G.S.
The Sanger Centre Hellow Campus, Hinxton, Cambridgeshire, CBIO 1SA, UK Sanger Centre name: sccd33355.

Location/Qualifiers
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AL449914 Homo sapiens fetal lung (Stavrides GS) Homo sapiens cDNA,
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                       4105 acaaggtttggcaaaaaaaaaaatattaacaaaatattctgtaagaatcaattggctata 4164
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                                                                 /note-"cDNA fragment isolated using a cDNA end rescue
technique" 141 q 59 r
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/clone_lib="Homo sapiens fetal lung (Stavrides GS)"
/tissue_type="Lung"
/dev_stage="fetal"
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                                                                                                                                                                                     Length 466;
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100.0%; Pred. No. 3.6e-169;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                           1. .466
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="20"
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EST.
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Best Local Similarity 100.(
2. 466; Conservative
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AL449914
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AL449914/c
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KEYWORDS
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AL449906 481 bp mRNA EST 15-NOV-2000
AL449906 Homo sapiens fetal lung (Stavrides GS) Homo sapiens cDNA,
                                                                                                                     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
(bases 1 to 481)
Stavrides,G.S., Huckle,E.J. and Deloukas,P.
Unpublished Stavrides,G.S., Huckle,E.J. and Deloukas,P.
Contact: Stavrides GS
                                                                                                                                                                                                                                                                  The Sanger Centre
Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA,
Bmail: humquery@sanger.ac.uk
Sanger Centre name : sccd3096.
Location/Qualifiers
1. .481
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8.5e-169;
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Best Local Similarity 100.0%; Pred. No. 8.5
Matches 465; Conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                                                                                                                                                               /clone_lib="Homo sapie
/tissue_type="Lung"
/dev_stage="fetal"
/note="cDNA fragment in
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Homo sapiens
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GS) Homo sapiens cDNA,
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Stavrides, G.S., Huckle, E.J. and Deloukas, P.
Unpublished. Stavrides, G.S., Huckle, E.J. and Deloukas, P.
Contact: Stavrides GS
                                                                            240
atcaggtgccctgctgccactgcagcttgactttgggctaagctgcttggagcaggagtt 395
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone_lib="Homo sapiens fetal lung (Stavrides GS)"
/tissue_type="Lung"
/dev_stage="fetal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ATCAGGTGCCCTGCTGCCACTTGACTTTGGGCTAAGCTGCTTGGAGCAGGAGTT
                                       cttgtcaatattgcctttgcctcttggcagcccttgaacttgagtaaataacaactccct
                                                 Length 461;
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Best Local Similarity 100.0%; Pred. No. 7.4e-167;
Matches 460; Conservative 0; Mismatches 0;
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="20"
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/noce="Organ: mixed (see below); vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I: Site_2: Eco RI: Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NbHM, pregnant uterus NbHPU, and fetal heart NbHH19W) were mixed, and sa circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479."
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9409h04.x1 Soares_NhHWPu_S1 Homo sapiens CDNA clone IMAGE:1932055

3', mRNA sequence.
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1 (bases 1 to 454)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
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/organism="Homo sapiens"
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1932055"
/clone=lib="Soares_NhHMPu_S1"
/tissue_type="Pooled human melanocyte, fetal heart, and pregnant uterus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
TMAGE Consortium (info@image.linl.gov) for further information.
INAGE Consortium (info@image.linl.gov) for further information.
Seq primer: -40UP from Gibco
High quality sequence stop: 409.
Location/Qualifiers
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3816 aatacatggtgtatagcaccaaaaatggagggattattcttccagtagttgaacactgt 3875
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                            /clone="IMAGE:1431595"
/clone_lib="Sugano mouse liver mlia"
                                                                                                                                                                                                                                        Score 449; DB 10;
Pred. No. 1.1e-162;
0; Mismatches 2;
                                            /sex="female"
                                                                                                                                                                                                                                    Query Match 10.2%;
Best Local Similarity 99.6%;
Matches 549; Conservative
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Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Morris,M., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
                                         3216 agaatgaagagctaaaatagatcctaggtgctggatgcttgtcatccatgcgtgcacat 3275
                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone is available royalty free through LLNL ; contact the IMAGE Consortium (info@lmage.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                     01-JUL-1998
                                                                                                                                                                     AIO42706 563 bp mRNA EST 01-JUL-19 uc76f10.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1431595 3', mRNA sequence.
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           Length 454;
                              Indels
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Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
WashU-HHMI Mouse EST Project
4444 Forest Park Parkway, Box 8501, St. Louis, MO (781: 314 286 1810)
        Score 454; DB 10; I
Pred. No. 1.5e-164;
0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                      /organism="Mus musculus"
/strain="C57BL"
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Location/Qualifiers
1. 563
10.3%; Scc.
100.0%; Pre
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Homo sapiens cDNA

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GI:3280731
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OV82b10.x1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:1643803
3', mRNA sequence.
                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 459)
Stavrides, G.S., Huckle, E.J. and Deloukas, P. Unpublished. Stavrides, G.S., Huckle, E.J. and Deloukas, P. Unpublished (2000)
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                                                                                                                                                                                                             /clone_lib="Homo sapiens fetal lung (Stavrides GS)"
/tissue_type="Lung"
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/note="CDNA fragment isolated using a CDNA end rescue
                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                           Length 459;
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                                                                                                                                                                                                                                                                                                          Score 408; DB 10;
Pred. No. 8.4e-147;
                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                   95
                                                                                                                                                                                 /organism="Homo sapiens"
/db_xref="taxon:9606"
/map="20"
                                                                                                                   The Sanger Centre
Wellcome Trust Genome Campus, I
Email: humquery@sanger.ac.uk
Sanger Centre name : scc01338
Location/Qualiflers
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         AL449887.1 GI:11181512
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99.8%;
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                                        Homo saplens
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AL449887
                              human.
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TITLE
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AI041537/c
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Sequencing Center
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutherla; Primates; Catarrhini; Hominidae; Homo.
1 (bases I to 532)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
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                                                                                                                                           Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                  CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome 5 (Zlone distribution: NCI-CGAP clone distribution: Clone distribution: NCI-CGAP clone distribution: Cound through the I.M.A.G.E. Consortium/LiNL at: www-bio.llnl.gov/bbrp/lmage/image.html
Insert Length: 1648 Std Error: 0.00
Seq primer: -40ml3 fwd. Er from Amersham
High quality sequence stop: 444.
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Pred. No. 2.6e-145;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
/db_xref="taxon:9606"
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/clone_lib="Soares_testis_NHT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host-"DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9.28;
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                                                                                                                              Unpublished (1997)
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Matches 504; Conservative
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AL449886
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/db_xref="taxon:9606"
/dlone="inadge:1712350"
/clone="inAdge:1712350"
/clone="inAdge:1712350"
/lab_host="NHH_MGC_76"
/lab_host="DH10B (TI phage-resistant)"
/note="Organ: liver; Vector: pDNR-LIB (Clontech); Site_1: Sfil (ggccgcctcggcc); Site_2: Sfil (ggccgcctcggcc, were used in cloning as follows: 5' adaptor sequence: 5'-ATTCTAGAGGCCGAGCGCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCCGAGCGCACATG-TG-TO: Neverage insert size 1.85 kb (range 1.0-4.0 kb). 15/15 colonies contained inserts by PCR: This library was entiched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, 17.9 27.9 t
                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
I (Dases 1 to 859)
S NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc.
CONA Library Preparation: CLONETECH Laboratories, Inc.
CONA Library Preparation: CLONETECH Laboratories, Inc.
CONA Library Preparation: CLONETECH Laboratories, Inc.
CONA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be http://image.llnl.gov
Plate: LLCM1554 row: a column: 23
High quality sequence stop: 714.

Location/Qualifiers

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602584689F1 NIH_MGC_76 Homo sapiens cDNA clone IMAGE:4712350 5',
mRNA_sequence.
                                                     Length 859;
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Pred. No. 9.8e-138;
0; Mismatches 0;
                                                                                                              4317 tatatggaatttaggatagaatattt 4342
                                                                                                                                TATATGGAATTTAGGATAGAATATTT 27
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DEFINITION
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KEYWORDS
SOURCE
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 4197
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TITLE
JOURNAL
COMMENT
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BG563879
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AL449886 Homo sapiens fetal lung (Stavrides GS) Homo sapiens cDNA,
AL449886
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Manmalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Stavrides; G.S., Huckle, E.J. and Deloukas, P.
Unpublished (2000)
Unpublished (2000)
Contact: Stavrides GS
The Sanger Centre
Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, C
                                                        3597
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                                                                                                             ttactattatctgtgcttttgaggctatttctacatagtaactcttatggagacctaggg
                                                                                                                                                                                     /clone_lib="Homo sapiens fetal lung (Stavrides /tissue_type="Lung"
/dev_stage="fetal"
/note="conA fragment isolated using a cDNA end technique"
148 c 133 q 94 t
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Pred. No. 3.1e-135;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="20"
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Sanger Centre name : sccd1336.
Location/Qualifiers
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Best Local Similarity 99.8%;
Matches 428; Conservative
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mRNA sequence.
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Best Local Similarity
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 317
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AUTHORS
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Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK
Email: humquery@sanger.ac.uk
Sanger Centre name : sccd3101.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                AL449910 475 bp mRNA EST 15-NOV-2000 AL449910 Homo sapiens fetal lung (Stavrides GS) Homo sapiens cDNA,
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Stavrides, G.S., Huckle, E.J. and Deloukas, P. Unpublished. Stavrides, G.S., Huckle, E.J. and Deloukas, P. Contact: Stavrides G.S., Contact: Stavrides G.S.
                                                                                                                                                                                                 1. 475
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/map="Lb="Homo saplens fetal lung (Stavrides GS)"
/tissue_type="Lung"
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/note="CDNA fragment isolated using a CDNA end rescue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gcctcccagagtgctaggattacaggccttttgactctttatctgagttttattgaccc 2627
                                                                       ggcccggggaagccacggtactccttctggacctcttcagggcacgcgataacatgcga 936
                                                                                                                                                         ggccggaccacagtgggcctggggctgttcttccagcaactaacagggcagcccaac 996
GGCCGGACCACAGTGGGCCTGGGGCTGCTCTTCCAGCAACTAACAGGGCAGCCCAAC 381
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100.0%; Pred. No. 7.3e-135;
ative 0; Mismatches 0;
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AL449910/c
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KEYWORDS
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/db_xref="tomo_sopering" /db_xref="tomo.gof6" /clone="IMAGE:4716133" /clone="IMAGE:4716133" /clone="lib="NIH_MGC_76" /clone="lib="NIH_MGC_76" /lab_host="blib="NIH_MGC_76" /lab_host="blib="NIH_MGC_76" /lab_host="blib="NIH_MGC_76" /lab_host="blib="solid blib" /lab_host="blib" /la
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

I (bases 1 to 685)

NIH WGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.
Emall: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc.

CDNA Library Preparation: CLONETECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
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                                                                                                                                                                                                                                                                                                                                                                    197 GGCCTCAGTTCTAGTCCTTGGTCTGTCTGTCATTGCTGTAGGAATGACCACGGGCCTC 138
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602587156F1 NIH_MGC_76 Homo sapiens cDNA clone IMAGE:4716133 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
blate: LLCM1563 row: o column: 14
High quality sequence stop: 681.
Location/Qualifiers
                                                                                                  2688 gacctcagttctagtccttggtctgctgtgtcattgctgtaggaatgaccacgggcctc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCTCCCAGAGTGCTAGGATTACAGGCCTTTTGACTCTTTTATCTGAGTTTTATTGACCC
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BG568246.1 GI:13575899
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99.6%;
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Z.	Matches	536; Conservative 0; Mismatches 1; Indels 1; Gaps 1;	
ολ	3178	taaggaagggactgacaagaagctcccagatgctgqqqaqaatgaaggctaaaataaat	
q	1	THILLIHITITITITITITITITITITITITITITITITI	
Qy	3238	cctaggtgctggatgctttgtcatccatgcgtgcacatatggqtgctggcagagcccca	
đ	61	CTAGGTGCTGGATGCTTGTCATCCATGCGTGCACATATGGGTGCTGGCAGAGCCCCA	
δ	3298	aggactotggcctotogagttotoctatottotccattotagatgcttcccrtararca	
q	121	AGGACTCTGGCCTCTCGAGTTCTCCTATCTTCTCCATTCTAGATGCTTCCCTTGTATCA	
οy	3358	gtgatgtgctggagctggctttgccaagcttgtaagagctagttgctacatttcacat	
q	181	GTGATGTGCTGGACTGGCTTTGCCAAGCTTGTAGTTTTTTTT	
οy	3418	ttttacaagttggtaaacacagccattataaaaaattaaatgatttaa-atttataatta	
qq	241	TTTTACAAGTIGGTAAACACAGGCCATTATAAAATTAAATGATTAAAA	
δλ	3477		
qa	301	AGTAAATTACATTAAAACAAAAAATTATACTCAAAATTACTTAATTTTACTAC	
οy	3537	gttactattatctgtgcttttgaggctatttctacataqtaactctiatogagactatttc	
q	361		
ογ	3597		
qq	421		
ογ	3657	7.	
q	481		

Search completed: March 15, 2002, 05:44:10 Job time: 7337 sec